

Protection of security critical data in networks

Claims

1. An interprocess communication system running on a network system comprising at least one central unit ZE, at least one service unit SE physically connected with ZE and p_e (p_e integer and $0 < p_e$) peripheral units $PE_{1,...,p_e}$ physically connected to said central unit ZE, wherein ZE executes at least one thread - called Central Process or Thread -, SE executes at least one thread S - called Critical Service - and wherein
 - i. said at least one Critical Service comprises means to initiate or accept at least one standing logical bidirectional communication connection to or from said at least one Central Process, and wherein
 - ii. said at least one Central Process comprises means to accept or initiate at said least one standing logical bidirectional communication connection from or to said at least one Critical Service, and wherein
 - iii. after establishment of said at least one standing logical bidirectional communication connection between said at least one Central Process and said at least one Critical Service no further connection can be initiated or accepted by threads running on SE, and wherein
 - iv. at least one peripheral thread running on one peripheral unit of peripheral units $PE_{1,...,p_e}$ comprises means to initiate or accept at least one standing logical bidirectional communication connection to resp. from said at least one Central Process, and wherein
 - v. said at least one Central Process comprises means to accept or initiate at least one standing logical bidirectional communication connection from resp. to said at least one peripheral thread, and wherein

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- vi. after establishment of said at least one standing logical bidirectional communication connection between said at least one Central Process and said at least one peripheral thread data stored on service unit SE is accessible for said at least one Central Process only via said at least one Critical Service and for said at least one peripheral thread only via said at least one Central Process and said at least one Critical Service.s